

IN THE CLAIMS

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This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A circuit arrangement, comprising: having

a voltage link converter, which contains including an intermediate-circuit capacitor (9) and switching paths (6a to 6e), which are, arranged in parallel therewith and have including series-connected switching elements (7a to 7e and 8a to 8e), wherein a short-circuit thyristor (11) being is provided as protection against short-circuit currents and overvoltages;

characterized in that; and

a short-circuit protection arrangement, (10), comprising including a parallel circuit of the short-circuit thyristor (11) with pairs of series-connected protective diodes (12a to 12e and 13a to 13e) which conduct in opposition to said short-circuit thyristor, (11), is connected to the intermediate-circuit capacitor (9) and to the switching paths (6a to 6e), in that wherein the short-circuit protection arrangement (10) is connected in parallel with the intermediate-circuit capacitor (9), and in that wherein in each case a connection point between two series-connected switching elements (7a to 7e and 8a to 8e) in a switching path (6a to 6e) is connected to in each case a connection point between two series-connected protective diodes (12a to 12e and 13a to 13e) of the short-circuit protection arrangement (10).

2. (Currently Amended) The circuit arrangement as claimed in claim 1,

~~characterized in that~~ wherein the short-circuit protection arrangement (10) is only connected to the intermediate-circuit capacitor (9) and to the switching paths (6a and 6b) of the power supply system side.

3. (Currently Amended) The circuit arrangement as claimed in claim 1,

~~characterized in that~~ wherein the short-circuit protection arrangement (10) is only connected to the intermediate-circuit capacitor (9) and to the switching paths (6e to 6e) of the load side.

4. (Currently Amended) The circuit arrangement as claimed in one of claims 1 to 3 ~~claim 1, wherein~~
~~characterized in that~~ the switching elements (7a to 7e and 8a to 8e) in the switching paths (6a to 6e) are IGBTs.

5. (Currently Amended) The circuit arrangement as claimed in one of claims 1 to 4,

~~characterized in that~~ claim 1, wherein the short-circuit protection arrangement (10) is connected to the intermediate-circuit capacitor (9) via additional protective diodes (14, 15) arranged in two connecting lines, the additional protective diode (14) in the first connecting line conducting in opposition to the additional protective diode (15) in the second connecting line.

6. (Currently Amended) The circuit arrangement as claimed in one of claims 1 to 5,

~~characterized in that~~ claim 1, wherein the short-circuit thyristor (11) has associated current-limiting components.

7. (New) The circuit arrangement as claimed in claim 2, wherein the switching elements in the switching paths are IGBTs.

8. (New) The circuit arrangement as claimed in claim 3, wherein the switching elements in the switching paths are IGBTs.

9. (New) The circuit arrangement as claimed in claim 2, wherein the short-circuit protection arrangement is connected to the intermediate-circuit capacitor via additional protective diodes arranged in two connecting lines, the additional protective diode in the first connecting line conducting in opposition to the additional protective diode in the second connecting line.

10. (New) The circuit arrangement as claimed in claim 3, wherein the short-circuit protection arrangement is connected to the intermediate-circuit capacitor via additional protective diodes arranged in two connecting lines, the additional protective diode in the first connecting line conducting in opposition to the additional protective diode in the second connecting line.

11. (New) The circuit arrangement as claimed in claim 4, wherein the short-circuit protection arrangement is connected to the intermediate-circuit capacitor via additional protective diodes arranged in two connecting lines, the additional protective diode in the first connecting line conducting in opposition to the additional protective diode in the second connecting line.

12. (New) The circuit arrangement as claimed in claim 7, wherein the short-circuit protection arrangement is connected to the intermediate-circuit capacitor via additional protective diodes arranged in two connecting lines, the additional protective diode in the first connecting line conducting in opposition to the additional protective diode in the second connecting line.

13. (New) The circuit arrangement as claimed in claim 8, wherein the short-circuit protection arrangement is connected to the intermediate-circuit capacitor via additional protective diodes arranged in two connecting lines, the additional protective diode in the first connecting line conducting in opposition to the additional protective diode in the second connecting line.

14. (New) The circuit arrangement as claimed in claim 2, wherein the short-circuit thyristor has associated current-limiting components.

15. (New) The circuit arrangement as claimed in claim 3, wherein the short-circuit thyristor has associated current-limiting components.

16. (New) The circuit arrangement as claimed in claim 4, wherein the short-circuit thyristor has associated current-limiting components.

17. (New) The circuit arrangement as claimed in claim 5, wherein the short-circuit thyristor has associated current-limiting components.